
**Research
Management
Division
Addendum to
Publications Catalogue**

RMD Report 86/34A



RESEARCH MANAGEMENT DIVISION EMBLEM

The Emblem represents the interdisciplinary and holistic nature of the Division's environmental research programs. Each of the five sections of the symbol represent comprehensive programs on air, water, land, humans and their constant interaction. The sections converge to form a cohesive chain, characteristic of an effective research organization. This cohesive bonding makes the sections blossom into the environment in the form of a flower — an Albertan wild rose.

**ADDENDUM TO
PUBLICATIONS CATALOGUE**

**RESEARCH MANAGEMENT DIVISION
Alberta Environment**

May 1987

Copies of this publication are available upon request from:

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Publications Office
14th Floor, Standard Life Centre
10405 Jasper Avenue
Edmonton, Alberta
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INTRODUCTION

This Addendum has been printed to update the list of publications in the 1986 Research Management Division Publications Catalogue (RMD Report 86/34).

The new reports fall into the following report series:

1. ALBERTA OIL SANDS ENVIRONMENTAL RESEARCH PROGRAM (AOSERP) WIDE DISTRIBUTION REPORTS

Reports dealing with environmental research conducted principally within the Athabasca Oil Sands area in northeastern Alberta, although the Cold Lake and other oil sands areas of the province were also included. Following the incorporation of AOSERP into the regular program structure of RMD at the end of the 1984/85 fiscal year, the series was discontinued.

Two Fiscal Year Review Reports for 1983/84 and 1984/85 will conclude this series.

2. RESEARCH MANAGEMENT DIVISION WIDE DISTRIBUTION REPORTS

RMD reports have been published since 1980. If a report is deemed to be of general interest, it is designated for wide distribution and 200 copies are printed.

3. LIMITED DISTRIBUTION REPORTS

These are generally interim (project progress) reports or reports that, for various reasons, are deemed to be of only limited interest. Twenty copies are printed for distribution to depository libraries. This series contains both AOSERP and RMD reports.

Other reports included in this Addendum:

Contribution Papers - funded fully or in part by RMD.

Reclamation Research Technical Advisory Committee (RRTAC) reports. The RRTAC reports must be ordered through the Queen's Printer, and there is a charge for each one, ranging from \$5.00 to \$20.00.

REPORT AVAILABILITY

As indicated in the foregoing general descriptions of publications, reports are produced in limited quantities. As a result, certain reports are out of print and are no longer available from the Research Management Division. Please refer to the report series listings that follow for details regarding report availability.

To provide wider access the RMD publications and to ensure that out-of-print reports are accessible, the Publications Office has selected a number of alternate sources for publications. These locations are listed directly before the report listings.

Note that several of the libraries that hold RMD publications are connected with the inter-library loan system. Your library can provide you with information on obtaining reports through inter-library loan.

REQUESTING REPORTS

Reports that are in print may be requested from:

Research Management Division
Publications Office
14th Floor, Standard Life Centre
10405 Jasper Avenue
Edmonton, Alberta
T5J 3N4

(403) 427-3946

There is no charge for those Research Management Division reports that are in print and available through the Publications Office. Please give the report title and series number when ordering publications.

ALTERNATE LOCATIONS FOR RMD REPORTS

RMD has filed all AOSERP, LIMITED, and WIDE Distribution reports in the following libraries:

Alberta Environment Library
14th Floor, Oxbridge Place
9820 - 106 Street
Edmonton, Alberta T5K 2J6

Government Publications Division
Library
The University of Alberta
Calgary, Alberta T2N 1N4

Science Library
Cameron Library
University of Alberta
Edmonton, Alberta T6G 2J8

Alberta Legislative Assembly
Legislature Library
216 Legislature Building
Edmonton, Alberta T5K 2B6

Library
Canadian Wildlife Service/
Environmental Protection Service
Environment Canada
2nd Floor, Twin Atria Building
4999 - 98 Avenue
Edmonton, Alberta T6B 2X3

Departmental Library
Acquisitions Section
Environment Canada
Ottawa, Ontario K1A 1C7

National Library of Canada
Canadiana Acquisitions Division
Attn: Government Documents
Ottawa, Ontario K1A 0N4

Library
Alberta Environmental Centre
Bag 4000
Vegreville, Alberta T0B 4L0

University of Lethbridge
Government Documents
4401 University Drive
Lethbridge, Alberta T1K 3M4

Microfiche or xerographic paper copies may also be obtained from:

Micromedia Ltd.
158 Pearl Street
Toronto, Ontario
M3H 1L3

ALBERTA OIL SANDS ENVIRONMENTAL RESEARCH PROGRAM (AOSERP) REPORTS

<u>Report</u>	<u>Project Number</u>	<u>Microlog Number</u>	<u>Reference</u>
132	Admin.	87-01348	Pringle, I.D., ed. 1986. Alberta Oil Sands Environmental Research Program review for the fiscal year 1983/84. Prep. for Alberta Environment, Research Management Division. AOSERP Report 132. 33 pp.

RMD WIDE DISTRIBUTION REPORTS

<u>Report</u>	<u>Project Number</u>	<u>Microlog Number</u>	<u>Reference</u>
85/32	Admin.		Pringle, J.I., ed. 1986. Research Management Division review for the fiscal year 1984/85. Prep. for Research Management Division, Alberta Environment. RMD Report 85/32. 59 pp.
86/34	Admin.	86-03816	Pringle, J.I., ed. 1986. Research Management Division, Alberta Environment: Publications catalogue. Research Management Division, Alberta Environment: Edmonton, Alberta. RMD Report 86/34. 92 pp.
86/35	80-29		Peake, E., M.A. MacLean, and P.F. Lester. 1985. Nitric acid, peroxyacetyl nitrate (PAN), and particulate nitrate in the atmosphere of the City of Edmonton. Prep. for Alberta Environment, Research Management Division by the Kananaskis Centre for Environmental Research, University of Calgary. Edmonton, Alberta: Research Management Division. RMD Report 86/35. 304 pp.
86/36	84-16	87-00519	Davis, C.S., P. Fellin, D. Stevens, S. Todd, and K. Heidorn. 1985. Evaluation, analysis, and assessment of snowpack and precipitation data from a monitoring network in the AOSERP study area. Prep. for Alberta Environment, Research Management Division by Concord Scientific Corporation. RMD Report 86/36. 341 pp.
*86/37	80-32a	86-05548	Cruden, D.M. 1986. Monitoring the south peak of Turtle Mountain, 1980 to 1985. Prep. for Alberta Environment, Research Management Division and Earth Sciences Division by Department of Civil Engineering, University of Alberta. RMD Report 86/37. 70 pp.

<u>Report</u>	<u>Project Number</u>	<u>Microlog Number</u>	<u>Reference</u>
*86/38	220-W5	87-01349	Baddaloo, E.G., ed. 1986. Proceedings of Alberta Oil Sands Tailings Wastewater Treatment Technology Workshop. Held at Mildred Lake Research Station, Fort McMurray, Alberta; 1985 October 29-30. Prep. for Alberta Environment, Research Management Division. RMD Report 86/38. 129 pp.
87/40	85-29		Allen, E. Ashley Dale. 1987. An investigation into the use of biological agents for the control of aquatic plant growth in irrigation systems in Alberta. Prep. for Alberta Environment, Research Management Division. RMD Report 87/40. 26 pp.

LIMITED DISTRIBUTION REPORTS

<u>Report</u>	<u>Project Number</u>	<u>Microlog Number</u>	<u>Reference</u>
*L-89	83-48	86-03532	Baker, Bruce L. 1985. Attenuation of pollutants by Alberta soils. Prep. for Alberta soils. Prep. for Alberta Environment, Research Management Division by Kananaskis Centre for Environmental Research, University of Calgary. RMD Report L-89. 26 pp.
L-90	82-35	87-01808	Baker, Bruce L. 1985. Surface water contamination by landfill leachates. Prep. for Alberta Environment, Research Management Division by Kananaskis Centre for Environmental Research, University of Calgary. RMD Report L-90. 40 pp.
*L-91	79-47c	86-03533	Walder, G.L. and D.W. Mayhood. 1985. An analysis of benthic invertebrate and water quality monitoring data from the Athabasca River. Prep. for Alberta Environment, Research Management Division by Sigma Biometrics and FWR Freshwater Research Limited. RMD Report L-91. 254 pp.
L-92	84-08	87-01522	Conlin, B.H. 1987. An evaluation of the effects of brine on a compacted clay till liner. Prep. for Alberta Environment, Research Management Division by Komex Consultants Ltd. RMD Report L-92. 158 pp.
L-93	84-13		Peggs, I.D. and D. Little. 1986. Development of a procedure to nondestructively evaluate the fusion quality of geomembrane seams. Prep. for Alberta Environment, Research Management Division by Hanson Materials Engineering. RMD Report L-93. 78 pp.
L-94	80-13/24	86-03961	Addison, P.A., A.A. Khan, J. Baker, S.S. Malhotra, F. Theriault, F. Radford, and J.I. Ridgway. 1981. Effect of mixed pollutants on soil-plant microsm. Prep. for Alberta Environment, Research Management Division by Northern Forestry Centre, Canadian Forestry Service. RMD Report L-94. 20 pp.

* out of print

CONTRIBUTION SERIES PAPERS

This series comprises papers submitted to technical societies or journals by Division staff or by persons involved in research that is funded fully or in part through the Division. The articles may be found in the original publications cited.

*Acid-forming emissions in Alberta, Canada, by H.S. Sandhu and L. Blower; *Environmental Management* 10(5):689-695. 1986.

The debris of the Frank Slide and theories of rockslide-advance mobility, by D.M. Cruden and O. Hungr; *Canadian Journal of Earth Sciences* 23:425-432. 1986.

*Effects of oil sands processing emissions on the boreal forest, P.A. Addison, S.J. L'Hirondelle, D.G. Maynard, S.S. Malhotra, and A.A. Khan. Information Report NOR-X-284. 31 pp. 1986.

Effects of SO₂ on leaf conductance, xylem tension, fructose and sulphur levels of jack pine seedlings, S.J. L'Hirondelle and P.A. Addison; *Environmental Pollution (Series A)* 39:373-386. 1985.

Effects of sulphur dioxide on net CO₂ assimilation in the lichen Evernia mesomorpha nyl, D.B. Huebert, S.J. L'Hirondelle, and P.A. Addison; *New Phytologist* 100:643-651. 1985.

Evaluation of factors related to the unusually low chlorophyll levels in prairie saline lakes, C.E. Campbell and E.E. Prepas; *Canadian Journal of Fisheries and Aquatic Sciences* 43(4):846-854. 1986.

An evaluation of total phosphorous as a predictor of the relative importance of blue-green algae in Alberta lakes, Annette M. Trimbee and E.E. Prepas; *Canadian Journal of Fisheries and Aquatic Sciences*, Vol. 43. 1986.

An overview of Alberta Environment's acid deposition program, H.P. Sims, G.A. Singleton, and H.S. Sandhu; paper presented at the 2nd Annual Seminar on Acid Forming Emissions in Alberta, 1986 May 12-15.

Proceedings from the workshop on Research and Development Related to Oil Sands, Heavy Oil, and the Environment, Calgary, 1985 April 24-26. In: *Oil Sands, Heavy Oil, and the Environment*; Calgary, Alberta: The University of Calgary Press. ISBN 0-9198113-32-1. Pp. 133-155.

Proceedings on revegetation methods for Alberta's mountains and foothills, P.F. Ziemkiewicz, ed.; from Alberta Land Conservation and Reclamation Council, Reclamation Research Technical Advisory Committee.

Rooting depths and successional development of selected boreal forest communities, W.L. Strong and G.H. LaRoi; *Canadian Journal of Forest Research* 13(4):577-588. 1983.

Root-system morphology of common boreal forest trees in Alberta, Canada, W.L. Strong and G.H. LaRoi; Canadian Journal of Forest Research 13(6):1164-1173. 1983.

Rural ozone concentrations in Alberta, Canada, R.P. Angle and H.S. Sandhu; Atmospheric Environment 20(6):1221-1228. 1986.

Seasonal dynamics of phosphorus partitioning and export in two streams in Alberta, Canada, N. Munn and E. Prepas; Canadian Journal of Fisheries and Aquatic Sciences 43(12):2464-2471. 1986.

Secondary air pollutants (peroxyacetyl nitrate, nitric acid, particulate nitrate, and ozone) in Alberta, Canada, E. Peake and M.A. MacLean; P.F. Lester; and H.S. Sandhu; Proceedings of the Seventh World Clean Air Congress held at Sydney, Australia, 1986 August 25-29. Pp. 226-232.

Simulation of changes in groundwater levels associated strip mining, by F.W. Schwartz and A.S. Crowe; Geological Society of America Bulletin 96:253-262. 1985.

Smectitic clays and post-reclamation differential subsidence of stripmined areas, by M.B. Dusseault, J.D. Scott, and S.R. Moran; Applied Clay Science 1:163-172. 1985.

Sulphur gas emissions in the boreal forest: the West Whitecourt case study - V. Stable sulphur isotopes, H.R. Krouse, A.H. Legge, and H.M. Brown; Water, Air and Soil Pollution 22(1984):321-347. 1983.

RECLAMATION RESEARCH TECHNICAL ADVISORY COMMITTEE (RRTAC) REPORTS

The Reclamation Research Technical Advisory Committee consists of eight members representing the Alberta government departments of Agriculture, Energy and Natural Resources, and Environment, and the Alberta Research Council. Research projects results are made available through publications of reclamation research reports. These reports are available, for a fee, from:

Publications Services
Queen's Printer
11510 Kingsway Avenue
Edmonton, Alberta
T5G 2Y5

<u>Report</u>	<u>Price</u>	<u>Reference</u>
86-2	\$5.00	Macyk, T. 1986. Characterization and variability of soils reconstructed after surface mining in Central Alberta. Alberta Land Conservation and Reclamation Council. Report RRTAC 86-2. 146 pp.
86-3	\$5.00	Trudell, M.R. and S.R. Moran. 1986. Generalized procedures for assessing post-mining groundwater supply potential in the plains of Alberta. Alberta Land Conservation and Reclamation Council. Report RRTAC 86-3. 30 pp.
86-4	\$5.00	Maslowski-Schutze, A., R. Li, M.M. Fenton, S.R. Moran. 1986. Geology of the Battle River study site: Plains hydrology and reclamation project. Alberta Land Conservation and Reclamation Council. Report RRTAC 86-4. 70 pp.

NON-RMD REPORTS ALSO AVAILABLE FROM RMD¹

Long Range Transport of Atmospheric Pollutants in Western Canada (LRTAP) Reports

Technical Committee for the Long Range Transport of Atmospheric Pollutants in Western Canada. 1982. Evaluation of the status of surface water sensitivity mapping for acidic deposition in Western Canada. 90 pp.

Technical Committee for the Long Range Transport of Atmospheric Pollutants in Western Canada. 1987. Current acid gas emissions control options for Western Canada: a review. 22 pp.

Federal/Provincial Research and Monitoring Coordinating Committee (RMCC) Reports

Federal/Provincial Research and Monitoring Coordinating Committee. 1986. Assessment of the state of knowledge on the long-range transport of air pollutants and acid deposition. Part 1 - Executive summary. 18 pp.

Federal/Provincial Research and Monitoring Coordinating Committee. 1986. Assessment of the state of knowledge on the long-range transport of air pollutants and acid deposition. Part 2 - Atmospheric scientists. 108 pp.

Federal/Provincial Research and Monitoring Coordinating Committee. 1986. Assessment of the state of knowledge on the long-range transport of air pollutants and acid deposition. Part 3 - Aquatic effects. 57 pp.

Federal/Provincial Research and Monitoring Coordinating Committee. 1986. Assessment of the state of knowledge on the long-range transport of air pollutants and acid deposition. Part 4 - Terrestrial effects. 80 pp.

Federal/Provincial Research and Monitoring Coordinating Committee. 1986. Assessment of the state of knowledge on the long-range transport of air pollutants and acid deposition. Part 5 - Human health effects. 26 pp.

Federal/Provincial and Monitoring Coordinating Committee. 1986. Assessment of the state of knowledge on the long-range transport of air pollutants and acid deposition. Part 6 - Effects on man-made structures. 30 pp.

OTHER REPORTS

Environment Canada. 1986. Acid rain in western Canada. 3 pp.

¹ Requests for these reports may be made through the Research Management Division.